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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/994,961	11/27/2001	Kei Suda	15108	1684
23389 75	90 12/28/2005		EXAMINER	
SCULLY SCOTT MURPHY & PRESSER, PC			PHAM, TUAN	
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GARDEN CITY	Y, NY 11530		2643	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/994,961	SUDA, KEI	
Office Action Summary	Examiner	Art Unit	_
	TUAN A. PHAM	2643	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI .136(a). In no event, however, may a did will apply and will expire SIX (6) MON te, cause the application to become Al	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>09 in 18 in 1</u>	is action is non-final. ance except for formal mat	•	
Disposition of Claims			
4) ⊠ Claim(s) 1-32 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 1-4 and 6-10 is/are allowed. 6) ⊠ Claim(s) 11-15,17-24 and 28-32 is/are rejected for the claim(s) 16 and 25-27 is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to e drawing(s) be held in abeyar ction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in A onty documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(Summary (PTO-413) S)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5)	nformal Patent Application (PTO-152) 	

DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 18-20, and 28-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Kohlschmidt (U.S. Patent No.: 6,029,061).

Regarding claim 18, Kohlschmidt teaches a mobile phone having two main clock system, the main clock system comprising (see figure 1):

a main clock generator which generates a main clock signal (see figure 1, high accuracy clock 101, col.3, ln.1-10);

a main counter which carries out a counting operation of main clock of the main clock signal in response to the main clock signal generated by the main clock generator (see col.6, ln.1-22, quarterbit counter); and

a processor which stops the counting operation of the main counter by stopping the generation of the main clock by the main clock generator before entering a waiting operation and changes a count value of the main counter as if the counting operation of the main counter has been not stopped when going out of the waiting operation (see figure 1, DSP 104, col.4, ln.31-51, col.5, ln.1-21).

Regarding claim 19, Kohlschmidt further teaches the mobile phone wherein the processor comprises: a wait timer which carries out a counting operation of wait clocks of a wait clock signal in response to a wait clock signal for a predetermined time corresponding to a time period during which the generation of the main clock signal is stopped; and a CPU which operates based on the count value of the main counter in response to the main clock signal (see col.3, In.1-40).

Regarding claim 20, Kohlschmidt further teaches said wait timer is shared by the two main clock systems (see figure1, high clock 101, slow clock 102, CSP is included two counter, col.6, ln.1-22).

Regarding claim 28, Kohlschmidt teaches a mobile phone comprising:

a first clock generator configured to generate a first clock signal (see figure 1, high clock 101);

a second clock generator configured to generate a second clock signal with a frequency lower than said first clock signal (see figure 1, slow clock 102);

a first single counter configured to count said first clock signal (see figure 1, CSP is included the first and second counter, aquarterbit counter and frame counter, col.6, ln.1-22);

a second single counter configured to count said second clock signal and to control said first counter to step and restart the counting operation of said first clock signal in response to said second clock signal (see figure 1, CSP is included the first and second counter, aquarterbit counter and frame counter, col.6, In.1-22).

Regarding claim 29, Kohlschmidt further teaches said second counter counts said second clock signal for a period during which said first counter does not count said first clock signal (see col.6, In.1-22).

Regarding claim 30, Kohlschmidt further teaches a processing unit configured to set a new count value, at a time when said first counter restarted, to said first counter based on a counter value of said second counter of said second clock signal and a count value of said first counter at a time when said first counter is stopped (see col.5, ln.1-33, col.6, ln.1-22).

Regarding claim 31, Kohlschmidt further teaches said first clock generator is controlled to stop generation of said first clock signal at a time for the period, and said second counter controls said first clock generator to restart the generation of said first clock signal (see col.5, In.1-33, col.6, In.1-22).

Regarding claim 32, Kohlschmidt further teaches said second counter controls said first counter to restart the counting operation of said first clock signal in response to said second clock signal after said first clock generator restarts the generation of said first clock signal (see col.5, In.1-33, col.6, In.1-22).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 11-15, 17, and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kohlschmidt (U.S. Patent No.: 6,029,061) in view of Romao (U.S. Patent No.: 6,650,189).

Regarding claim 11, Kohlschmidt teaches a mobile phone having at least one main clock system, the main clock system comprising (see figure 1):

a main clock generator which generates a main clock signal (see figure 1, high accuracy clock 101, col.3, ln.1-10);

a main counter which carries out a counting operation of main clock of the main clock signal in response to the main clock signal generated by the main clock generator (see col.6, ln.1-22, quarterbit counter); and

a processor which stops the counting operation of the main counter by stopping the generation of the main clock by the main clock generator before entering a waiting

Application/Control Number: 09/994,961

Art Unit: 2643

operation and changes a count value of the main counter as if the counting operation of the main counter has been not stopped when going out of the waiting operation (see figure 1, DSP 104, col.4, ln.31-51, col.5, ln.1-21).

It should be noticed that Kohlschmidt fails to teaches the change is based upon a preset value include a ratio of the frequency of the main clock signal to the frequency of the wait clock signal. However, Romao teaches such features (see col.1, In.32-50).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporated the teaching of Romao into view of Kohlschmidt in order to improve the power consumption as suggested by Romao at column 1, lines 19-50.

Regarding claim 12, Kohlschmidt further teaches the mobile phone wherein the processor comprises: a wait timer which carries out a counting operation of wait clocks of a wait clock signal in response to a wait clock signal for a predetermined time corresponding to a time period during which the generation of the main clock signal is stopped; and a CPU which operates based on the count value of the main counter in response to the main clock signal (see col.3, In.1-40).

Regarding claim 13, Kohlschmidt further teaches the mobile phone wherein the wait timer which stops the operations of the main counter and the CPU by stopping the generation of said main clock signal by the main clock generator in response to an instruction from the CPU, and controls the main clock generator to restart the generation of the main clock signal and the CPU to change a count value of the main counter, after the predetermined time elapses (see col.3, In.1-40).

Application/Control Number: 09/994,961

Art Unit: 2643

Regarding claim 14, Kohlschmidt further teaches the mobile phone wherein the CPU changes the count value of the main counter by adding data corresponding to the number of the main clocks while the counting operation of the main counter is stopped, to the count value of the main counter (see col.3, ln.1-40, col.4, ln.31-51).

Regarding claim 15, Kohlschmidt further teaches the mobile phone wherein the CPU calculates the data to be added, based on the wait clocks counted by the wait timer during the predetermined time (see col.3, In.1-40, col.4, In.31-51).

Regarding claim 17, Kohlschmidt further teaches the mobile phone wherein the predetermined time is set in the wait timer by the CPU before the wait timer stops the generation of the main clock signal by the main clock generator (see col.3, In.1-40, col.4, In.31-51).

Regarding claim 21, Kohlschmidt teaches a method and a mobile phone having at least one main clock system and operating based on a main clock signal of the main clock system, wherein the main clock system comprising (see figure 1):

counting main clocks of the main clock signal using a first counting mean(see col.6, ln.1-22, quarterbit counter); and

stopping generation of the main clock signal for a time period, while counting wait clocks of a wait clock signal using a second counting means (see figure 1, high accuracy clock 101, slow clock 102, CSP 103, DSP 104, col.3, ln.1-40, col.4, ln.31-51, col.5, ln.1-21),

restarting the generation of the main clock signal after the time period (see figure 1, high accuracy clock 101, slow clock 102, CSP 103, DSP 104, col.3, ln.1-40, col.4, ln.31-51, col.5, ln.1-21), and

restarting the counting operation of said main clock of said main clock signal from preset data corresponding to said counted wait clocks of said wait clock signal (see figure 1, high accuracy clock 101, slow clock 102, CSP 103, DSP 104, col.3, ln.1-40, col.4, ln.31-51, col.5, ln.1-21).

It should be noticed that Kohlschmidt fails to teaches the change is based upon a preset value include a ratio of the frequency of the main clock signal to the frequency of the wait clock signal. However, Romao teaches such features (see col.1, In.32-50).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporated the teaching of Romao into view of Kohlschmidt in order to improve the power consumption as suggested by Romao at column 1, lines 19-50.

Regarding claim 22, Kohlschmidt further teaches the method and mobile phone wherein the correction control means comprises: counting means for counting the wait clocks of the wait clock signal for the time period during which the generation of the main clock signal is stopped; and calculating means for calculating the main clocks while the generation of the main clock signal is stopped; and setting means for correcting the count value of the main counter based on the calculated main clocks (see col.3, In.1-40, col.4, In.31-51, col.5, In.1-21).

Regarding claim 23, Kohlschmidt further teaches the method and mobile phone wherein a frequency of the main clock signal is larger than a frequency of the wait clock signal (see figure 1, high accuracy clock 101 at 13MHz, slow clock 102 at 32.7KHz).

Regarding claim 24, Kohlschmidt further teaches the method and mobile phone wherein the time period during which the generation of the main clock signal is stopped is predetermined (see col.3, In.1-40).

Allowable Subject Matter

- 6. Claims 1-4, and 6-10 are allowed.
- 7. Claims 16, and 25-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan A. Pham** whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz can be reached on (571) 272-7499 and

Application/Control Number: 09/994,961 Page 10

Art Unit: 2643

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Art Unit 2643 December 26, 2005 Examiner

Tuan Pham

DUC NGUYEN PRIMARY EXAMINER